

2.5 Remote I/O Connections

The I/O connections on the back of the controller consist of 3 main ports; Port A □ (DB-25 Female), Port B (DB-37 Female), and Port C (DB-37).□

Port A has the metering and control of the System as well as the metering for PA5 □ (bottom PA). Port B and Port C have the amplifier metering for PA1 (top) through □ PA4 (next to bottom). □

I/O port A is described in illustration 2-15, I/O port B is described in illustration □ 2-16, and I/O port C is described in illustration 2-17.

Port A	
Pin	Description
1	PA # 5 - # 8 current 1V = 2A of current
2	PA # 5 - # 7 current 1V = 2A of current
3	System Lock-Out Reset - Momentary to Ground to reset power control to normal
4	Remote RF Power RAISE - Momentary to Gnd to raise power 200 watts/second
5	Cabinet Temperature - 0.01 Volts/degrees Celsius reading of internal cabinet temp.
6	Ground
7	Remote High Voltage ON/OFF - Hold to ground to turn ON High Voltage
8	Fault Summary - TTL Logic HIGH (+5 VDC) when any fault light is ON
9	Ground
10	PA # 5 - ALC
11	PA # 5 - PA Temperature (Celcius) 1V = 20 degrees C
12	PA # 5 - SWR
13	PA # 5 - RF Output power 1V = 1000 Watts RF power
14	PA # 5 - In Ref.
15	Remote RF Power LOWER - Momentary to Gnd to lower power 20 watts/second
16	PA # 5 - # 6 current 1V = 2A of current
17	PA # 5 - # 5 current 1V = 2A of current
18	Remote RF Power, Forward - 1 VDC = 1000 Watts of Forward power
19	PA # 5 - # 4 current 1V = 2A of current
20	PA # 5 - # 3 current 1V = 2A of current
21	Remote RF Power, Reverse - 1 VDC = 1000 Watts of Reverse power
22	PA # 5 - # 2 current 1V = 2A of current
23	PA # 5 - # 1 current 1V = 2A of current
24	PA # 5 - PA Total Current 1V = 20 Amps
25	PA # 5 - PA Volts 1V = 10 Volts

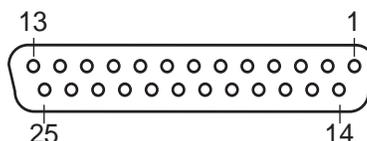


Illustration 2-15 Remote I/O Port A Female DB-25

Port B	
Pin	Description
1	(PA1) RF Power - 1V = 1000 Watts of power
2	(PA1) SWR - Calculated reading of SWR in VDC (1.00 VDC = 1.0 to 1.0 VSWR)
3	(PA1) PA Volts - 1V = 10 V on the PA
4	(PA1) PA Temperature - 1V = 20 degrees Celsius on the PA
5	Ground
6	(PA1) PA Total Current - 1V = 20 A on the PA
7	(PA1) PA#1 current - 1V = 2A of current
8	(PA1) PA#2 current - 1V = 2A of current
9	(PA1) PA#3 current - 1V = 2A of current
10	Ground
11	(PA1) PA#4 current - 1V = 2A of current
12	(PA1) PA#5 current - 1V = 2A of current
13	(PA1) PA#6 current - 1V = 2A of current
14	(PA1) PA#7 current - 1V = 2A of current
15	Ground
16	(PA1) PA#8 current - 1V = 2A of current
17	(PA1) ALC - A direct reading of the ALC voltage on the PA
18	(PA1) In Ref - A DC voltage reference representing RF input power to the PA
19	(PA2) RF Power - 1V = 1000 Watts of power
20	(PA2) SWR - Calculated reading of SWR in VDC (1.00 VDC = 1.0 to 1.0 VSWR)
21	Ground
22	(PA2) PA Volts - 1V = 10 V on the PA
23	(PA2) PA Temperature - 1V = 20 degrees Celsius on the PA
24	(PA2) PA Total Current - 1V = 20 A on the PA
25	(PA2) PA#1 current - 1V = 2A of current
26	Ground
27	(PA2) PA#2 current - 1V = 2A of current
28	(PA2) PA#3 current - 1V = 2A of current
29	(PA2) PA#4 current - 1V = 2A of current
30	(PA2) PA#5 current - 1V = 2A of current
31	Ground
32	(PA2) PA#6 current - 1V = 2A of current
33	(PA2) PA#7 current - 1V = 2A of current
34	(PA2) PA#8 current - 1V = 2A of current
35	(PA2) ALC - A direct reading of the ALC voltage on the PA
36	Ground
37	(PA2) In Ref - A DC voltage reference representing RF input power to the PA

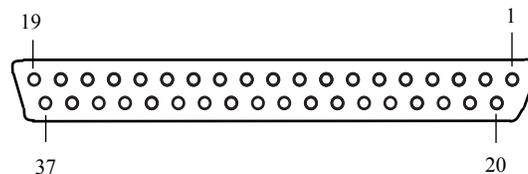


Illustration 2-16 Remote I/O Port B Female DB-37

Port C	
Pin	Description
1	PA # 3 - RF Power - 1V = 1000 Watts of power
2	PA # 3 - SWR
3	PA # 3 - PA Volts - 1V = 10 V
4	PA # 3 - PA Temperature - 1V = 20 degrees Celsius on the PA
5	Ground
6	PA # 3 - PA Total Current - 1V = 20 A on the PA
7	PA # 3 - PA#1 current - 1V = 2A of current
8	PA # 3 - PA#2 current - 1V = 2A of current
9	PA # 3 - PA#3 current - 1V = 2A of current
10	Ground
11	PA # 3 - PA#4 current - 1V = 2A of current
12	PA # 3 - PA#5 current - 1V = 2A of current
13	PA # 3 - PA#6 current - 1V = 2A of current
14	PA # 3 - PA#7 current - 1V = 2A of current
15	Ground
16	PA # 3 - PA#8 current - 1V = 2A of current
17	PA # 3 - ALC - A direct reading of the ALC voltage on the PA
18	PA # 3 - In Ref - A DC voltage reference representing RF input power to the PA
19	PA # 4 - RF Power - 1V = 1000 Watts of power
20	PA # 4 - SWR
21	Ground
22	PA # 4 - PA Volts - 1V = 10 V on the PA
23	PA # 4 - PA Temperature - 1V = 20 degrees Celsius on the PA
24	PA # 4 - PA Total Current - 1V = 20 A on the PA
25	PA # 4 - PA#1 current - 1V = 2A of current
26	Ground
27	PA # 4 - PA#2 current - 1V = 2A of current
28	PA # 4 - PA#3 current - 1V = 2A of current
29	PA # 4 - PA#4 current - 1V = 2A of current
30	PA # 4 - PA#5 current - 1V = 2A of current
31	Ground
32	PA # 4 - PA#6 current - 1V = 2A of current
33	PA # 4 - PA#7 current - 1V = 2A of current
34	PA # 4 - PA#8 current - 1V = 2A of current
35	PA # 4 - ALC - A direct reading of the ALC voltage on the PA
36	Ground
37	PA # 4 - In Ref - A DC voltage reference representing RF input power to the PA

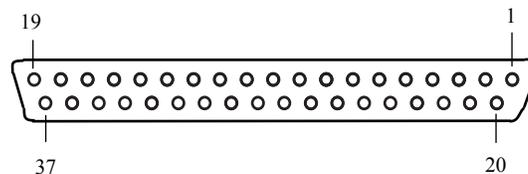


Illustration 2-17 Remote I/O Port C Female DB-37